

OMPHOBBY®

Global Professional RC Model Brand



Installation Manual

49" Bighorn ARF version



49" Bighorn Balsa wood Airplane

Parameter Specification

Item:	49" Bighorn Pro	Color:	Green <input type="checkbox"/> Blue <input type="checkbox"/> Red <input type="checkbox"/>
WingSpan:	1250mm(49in)	Full Length:	1040mm(41in)
Flight Weight:	1.55kg	The Center of Gravity (CG):	Approx. 58-66mm
Wing Area:	34.67dm²	Wing Load:	44.7g/dm²
Wing Angle of Incidence:	1.5°	Motor Thrust Angles:	Down 2° & Right 4°
Pack Dimension	101*29*23 (L*H*W)cm	Gross Weight:	6.65KG
Servo: OMPHOBBY SG5 17g *6 : (Aileron*2,Flap*2,Elevator*1, Rudder*1)			
Electric Power (Recommended):			
Motor: Sunnysky 2820 , ESC: 40A, Propeller: Eolo 13x7E/12x6.5E, Lipo battery:3S/4S 2200-2600mah			

Recommended Settings of Dual Rates and Exponentials of Control Surfaces

	Low rate	Low rate exp	High rate	High rate exp
Aileron	60	40%	100	40%
Elevator	50	30%	100	30%
Rudder	60	30%	100	30%
Flap	80	~	100	~

➤ **Package contents
(ARF version)**

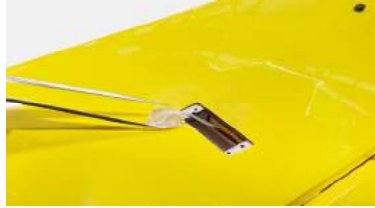


Servos Assembly

1. Carefully locate the slots which have been made on aileron, flap, horizontal tail and vertical tail, lightly cut through the covering but not into the balsa sheeting; Insert 2mm inner hexagon screwdriver into the slots to make sure the glue inflow into the slots to secure the control arms.
2. Use sand paper to roughen the root of control arms. Try to insert it into the mounting slot to adjust the position at first, then take it out, apply glue to the slot and the root of the control arm insert it into the slot to secure it.



3. Pull out the white polyester thread from the servo holes with tweezers, tie up with the servo connector.



4. Find the other head of white polyester thread from wing side, pull it until servo is placed in servo hole.



5. Use screwdriver to tighten the screws to secure the servos.
6. Secure servo arms and control arms with ball head pull rod (After the glue is dried), put the cup head hexagonal screw, gasket, ball head on servo arm, secure it with iron pliers, adjust the ball head pull rods to proper length.
7. Secure screw, washer, ball head to control arm, check the degrees between servo arms and control arms.

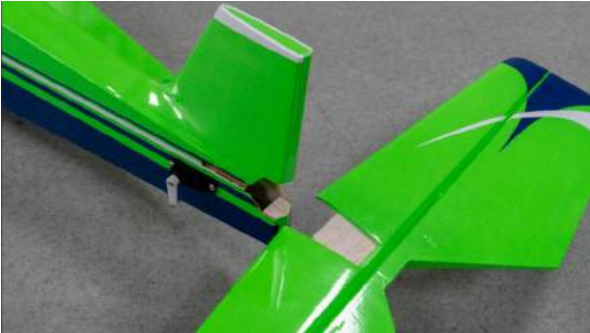


8. Install elevator servos in the similar way.



Elevator and Vertical tail Assembly

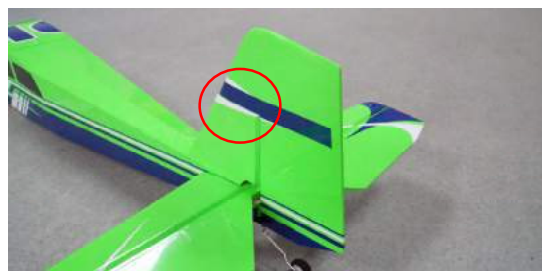
1. Align the flat tail slot with the fuselage slot and clip it into the fuselage



2. Insert the carbon tube to ensure that the flat tail is parallel to the carbon tube, use 502 dispensing and fixing



3. Insert vertical tail hinge into fuselage hinge seam

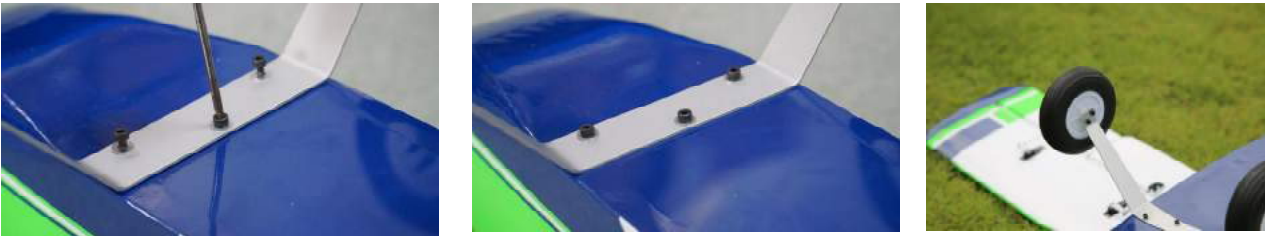


4. Ensure that there is 1 ~ 2mm clearance between the fuselage and the vertical tail, use 502 dispensing and fixing



Main Landing gear and tail wheel set Assembly

Align the landing gear according to the hole position and tighten the three screws, install the wheels as shown



As shown in the picture, the screw should be on the central axis to install the tail wheel set



Cowl and Engine Assembly

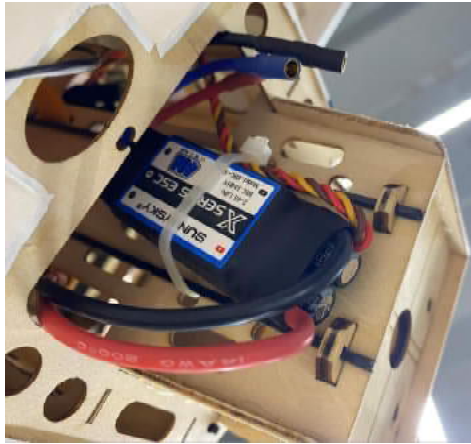
➤ Motor Installation

1. Put the screws into motor mount and put aluminum columns to the other side of screws.
2. Apply glue to the screws and install motor to motor holder.



➤ ESC Installation

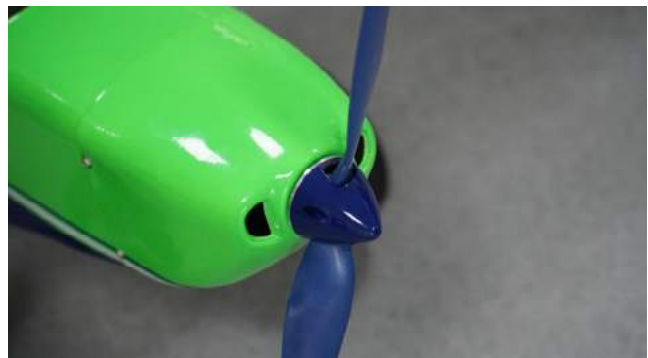
1. Attach the connected ESC to ESC holder with double-sided tape and Secure with cable ties.
2. Tie the wires of ESC and motor with fastening strap.
3. Connect the ESC and motor wires.



➤ Cowl and Propeller Installation

Tighten the propeller onto the motor shaft as shown in the figure. Make sure the spinner's back plate is flush with the propeller base.

Tips: Installation sequence: aluminum alloy base → propeller → gasket → nut → propeller cover → two cross screws



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Disclaimer and Safety

- This product is not a toy. It is not recommended for children under age 14.
- Fly the airplane by abiding by local laws and rules.
- Fly the airplane in a designated location, and always maintain visual contact of the aircraft.
- Avoid flying directly over unprotected people, moving vehicles, and occupied structures.
- Read the safe code of AMA before flight. The guideline can be downloaded from the following link: www.modelaircraft.org/files/100.pdf